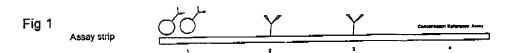
Kuo Patent

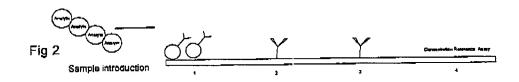
Key Features:

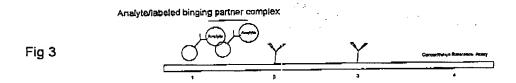
1. Both Zone 2 and Zone 3 binding partner is specific for analyte/label complex

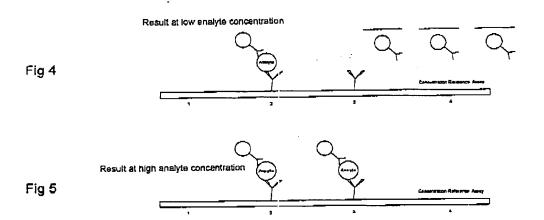
Inc.

- 2. Binding at zone 2 is high at low analyte concentrations,
- 3. As analyte concentration increases, Zone 2 saturates and Zone 3 increases.
- 4. The ratio of zone 2 to zone 3 allows improved reflectance readings due to optimization of reflectance dynamic range.
- 5. The concentration reference assay in zone 4 is for a different analyte entirely and is used to correct for sample dilution when urino is used.









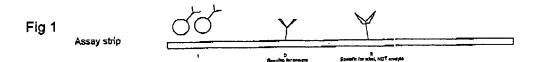
RAMP System

Key Features:

Fig 3

- 1. Zone 2 binding partner is specific for analyte
- 2. Zone 3 capture material will NOT bind to analyte; is directed to particle
- 3. Zone 2 label is proportional to analyte concentration
- 4. Zone 3 label is CONSTANT, subject only to assay variability not to antigen concentration
- 5. The ratio of zone 2 to zone 2+3 corrects for assay variability in zone 2 that is seen in zone 3 and is not affected by antigen concentration

Inc.





Analyte/labeled binging partner complex

Fig 4 Result at high analyte concentration Fig 5